

# **Emergency Response**& Radiological Services 101

# Peter Ricca Daniel Lambert

**Emergency and Radiological Services Division**Louisiana Department of Environmental Quality



## Office Organizational Chart



#### ENVIRONMENTAL SERVICES

WATER PERMITS

**WASTE PERMITS** 

**AIR PERMITS** 

ENVIRONMENTAL COMPLIANCE

**SURVEILLANCE** 

**ENFORCEMENT** 

EMERGENCY RESPONSE & RADIOLOGICAL SERVICES

ENVIRONMENTAL ASSESSMENT

AIR QUALITY
ASSESSMENT

WATER QUALITY
ASSESSMENT

**TECHNOLOGY** 

**REMEDIATION** 

**LABORATORY SERVICES** 

UNDERGROUND STORAGE TANK

MANAGEMENT & FINANCE

FINANCIAL SERVICES

INFORMATION SERVICES

**GENERAL SERVICES** 

**HUMAN RESOURCES** 

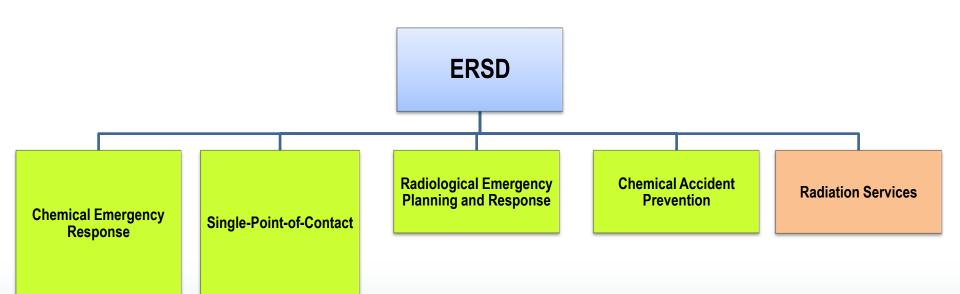
PERMITS SUPPORT DIVISION

FOR COMMUNITIES

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

# Emergency and Radiological Services Division









### **Division Role**



- Address Chemical and Radiological Emergencies
- Facility Accident Prevention Oversight
- Accept Notification of Spills, Releases and Complaints
- Ensure Compliance with State Radiation Regulations



### What We Will Cover Today



What is an "Emergency"

Who to contact in an emergency

What is a "Complaint"

How to file a complaint

How to find out "What Happened"





## **Emergency Condition**



ERC 33:I.3905, which states

"any condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property"





### **Incident Discussion**













## **Emergency vs. Complaint**



- Emergency Condition Exists
- There is Required
   Notification to State Police
   by Responsible Party
   (verbal and written)
- Call LSP Hotline
   (225) 925 -6595
- ENVIROSCHOOL

  FOR COMMUNITIES

  LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

- Non-emergency Condition Exists
- Examples of Non-Emergency Complaints
  - Sewage Releases
  - Open Burning
  - Trash
- Contact SPOC

# Making a Complaint



## SPOC

Single-Point-of-Contact
Takes complaints statewide
Maintains response data



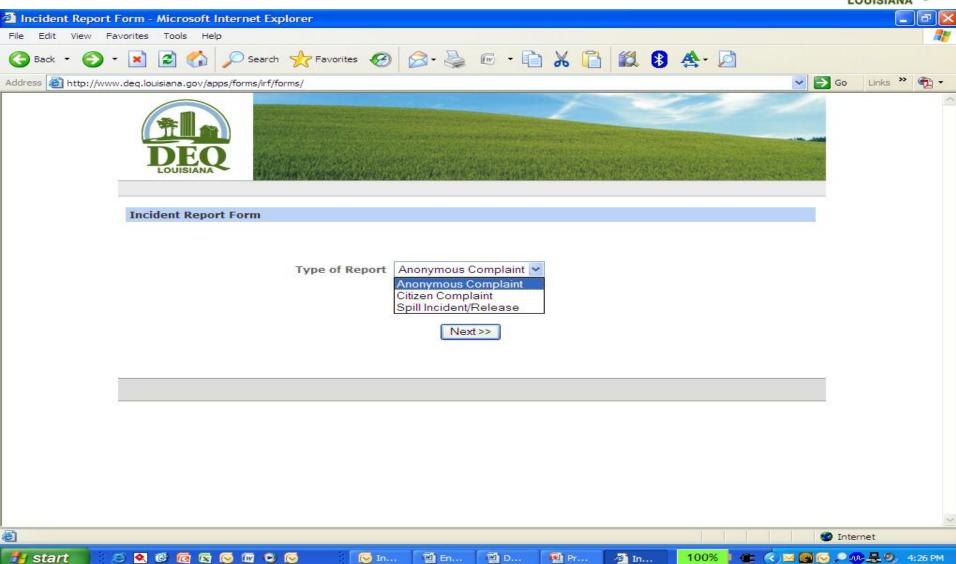
# Complaints





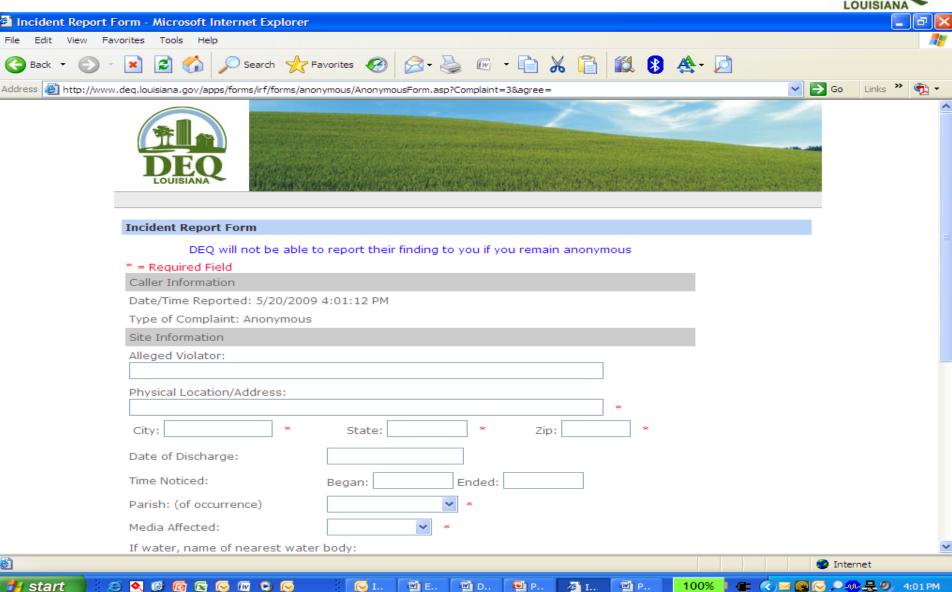
# Complaints





# Complaints





# Single Point of Contact (SPOC)



- 888-763-5424 (Toll Free in LA)
- 225-342-1234
- 225-219-3640
   (If no answer please leave a detailed message on the Voicemail)
- www.deq.louisiana.gov



# When Making a Complaint DETAILS - DETAILS - DETAILS

- 1. Location address, miles from main road, etc.
- 2. Time/Date (recurring or one time?)
- 3. Any other information
  - » Drums
  - » Spills
  - » Piles of waste
  - » Etc.



## When Making a Complaint 🍱



#### If you leave your name and contact information

- ALL information you leave is a Public Record (anyone can access the information)
- Investigators can contact complainant for additional info (this helps DEQ provide the best quality response to the complainant)
- Complainant can request a follow up call from the DEQ investigator assigned to the complaint



# When Making a Complaint (



If you make an <u>anonymous</u> complaint

- You will not be contacted by investigator
- Without access to additional information the complaint investigation may be unproductive
- Investigation procedures are the same for all complaints anonymous or known



# What Happened?



# To find out what happened Call SPOC to Obtain

1. Complaint Report Number

2. Inspector Name/Contact Info.



# Radiological Emergency Planning and Response



 Develops plans to address radioactive material emergencies including waste transported through Louisiana

 Conducts and participates in drills at three (3) nuclear power plants in or near Louisiana



# Chemical Accident Planning Program (CAPP)



 Created as a result of the methylisocyanate gas release in Bhopal, India (1984)

8 – 10,000 dead in 72 hours; 25,000 dead overall

Reviews Risk Management Plans

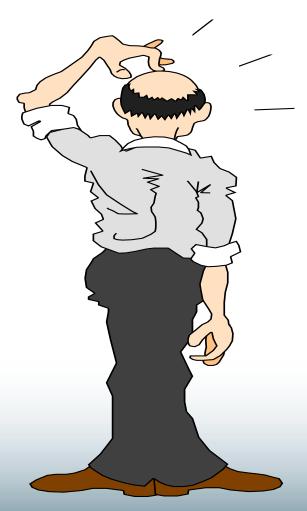


# Review of Today's Information



- What is an "Emergency"
- Who to contact in an emergency
- What is a "Complaint"
- How to make a complaint
- How to find out what happened







# Questions?



### **DEQ in 2009**

#### Office & Division Contact Information



Emergency & Radiological Services Division
 P. O. Box 4312
 Baton Rouge, LA 70821-4312

#### Division Administrator

Jeffrey P. Meyers

Phone: 225-219-3620

Fax: 225-219-4044

Jeff.Meyers@la.gov



### **DEQ in 2009**

#### **Speaker Contact Information**

Peter Ricca, Manager

Phone: 225-219-3620

Fax: 225-219-4044

Peter.Ricca@la.gov

Daniel Lambert, Supervisor

Phone: 225-219-3620

Fax: 225-219-4044

Daniel.Lambert@la.gov





#### Resources



- http://www.deq.louisiana.gov/portal/tabid/279/Defaul t\_aspx - (Single-Point-of-Contact)
- http://www.deq.louisiana.gov/portal/tabid/1617/Defa ult.aspx - (Complaints)
- http://www.deq.louisiana.gov/apps/forms/irf/forms/
   (online reporting)
- 24 hr. Hotline 225-765-0160 (Radiation only)
- State Police Hotline 225-925-6595 (Emergencies)





# **Emergency Response**& Radiological Services 101

#### **Judith Schuerman**

**Emergency and Radiological Services Division**Louisiana Department of Environmental Quality





# RADIOLOGICAL SERVICES



### **Radiation Basics**



- Radiation is
  - a form of energy
  - All around us as natural or background radiation
  - Also man-made, as in x-rays, color TVs, smoke detectors



## **Radiation Warning Symbol**







## **History of X-Rays**



- X-RAYS or "Wonder Rays" were discovered 11/8/1895
  - By Wilhelm Conrad Roentgen
  - By accident
  - First x-ray of his wife's hand
  - Received first Nobel Prize in Physics in 1901







**FIG. 3-3.** First x-ray picture on film, Mrs. Roentgen's hand. (From Glasser O: *William Conrad Roentgen and the early history of the roentgen rays*, London, 1933, John Bale, Sons, and Danielsson, Ltd.)



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### **Radiation Protection**



- The definition of Radiation Protection is
  - Measure employed by radiation workers to safeguard the public, the patient, and the radiation worker from unnecessary exposure to ionizing radiation.
  - ALARA "as low as reasonably achievable"
- How can we do this?
  - Time shorten a person's exposure times
  - Distance farther from source, lower the exposure
  - Shielding anything placed between source and you



### Radiation Licensing, Surveillance, and Enforcement Section



- 24 Employees
- Our job is
  - to regulate the sources of radiation in Louisiana
  - to maintain adequately trained radiological response personnel through education, training, and drills
  - To maintain equipment and on-call personnel for 24hour response capabilities



## Radiation Licensing Unit...



- Radioactive Material Licensing
  - 548 Licensees in LA
- Registrations for different X-ray Devices
  - Dental Units, Hospitals, Chiropractics, Industrial
  - Schools Colleges and Universities
  - Cancer Treatment Centers
  - 13,653 X-Ray devices registered in LA
- Certifications for Industrial Radiographers
  - 991 certified in 2008; renew every 5 years



Federal Tax ID		-	Department of Environmental			OFFICE USE ONLY		
# Emergency &		Radiological Services Division			License #			
				P.O. Box 4312			e #	
APPLICATION Baton Rou			ge, Louisiana 70821-4312			AI#		
FOR RADIOACTIVE Phone: (225) 2			219-3041 Fax: (225) 219-3154				dment #	
MATERIAL LICENSE			(220) 220 1			Date Is		
DRC 11 (Rev. 1/1/06)  1. NAME OF APPLICANT				- 37 - 7: - 4 - 1: -:	- 5 1		Received	
I. NAME OF APPLICANT			2.	☐ New License Application	□ Renewal	□ Am	endment Request	
			LICENSE NUMBER:					
MAILING ADDRESS			3. DEPARTMENT, LOCATION OR ADDRESSES AT WHICH USED AND/OR STORED					
				Theck if same as Item 1 only				
		ZIP CODE:						
AREA CODE	TELEPHONE NO.	ZEE CODE.	† □ т	Temporary Job Sites in LA	□ Offshore			
				ut of State (List States)				
AREA CODE	FAX NO.		EM	AIL:				
4.	RADIATION PROGRAM PERSONNEL			TITLE OR FUNCTION			RESUME	
				11122 011				PAGE OR ITEM
PERSON RES	PONSIBLE FOR RADIAT	ION PROTECTION (RSC	))					
INDIVIDUAL(S) OR COMMITTEE RESPONSIBLE FOR USE				☐ Committee Chairman				
COMMITTEE TITLE				NO. OF ADDITIONAL CO	OMMITTEE MEM	BERS		
				OR INDIVIDUALS				
5. PERSONNEL MONITOR				ING		NOT APP.	ATTACHMENT	PAGE OR ITEM
	Name of Supplier:		DA:	DIATION DETECTED				
a. Personnel	Exchange Period:			Alpha 🗆 Beta	□ Gamma			
Dosimetry	Where Wom:		_ D	Neutron □ X-Ray	□ Radon			
b. Pocket	Manufacturer:		_	DIATION DETECTED				
Chamber or	Model:	Max. Range:	_	Alpha □ Beta	□ Gamma			
Dosimeter	□ Direct Reading			Veutron □ X-Ray	□ Radon			

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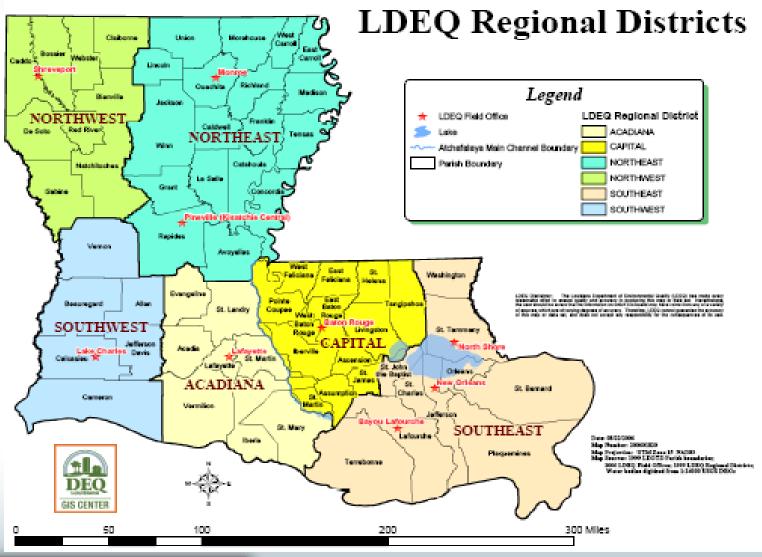
### Radiation Licensing Unit...



- Reciprocity
  - Recognition of Radioactive Material Licenses from other agreement states and the Nuclear Regulatory Commission

- NORM Naturally Occurring Radioactive Material
  - Found in oil exploration activities







# Radiation Surveillance Unit...



12 Inspectors throughout 6 Regions of the state

- Perform inspections anyplace that has radioactive materials or X-rays
- Strict Radiation Protection rules must be followed both our regulations and Nuclear Regulatory Commission's (NRC) rules



# Radiation Enforcement Unit...



Staff of 1 Enforcement Writer

Issues all Compliance Orders and Notices of Potential

**Penalties** 







## Questions?



#### **DEQ in 2009**

**Speaker Contact Information** 



 Judy Schuerman, Manager Phone: 225-219-3041

judith.schuerman@la.gov

